



PATENT  
ATTORNEY DOCKET NO. 053848-5017

**IN THE UNITED STATES PATENT AND TRADEMARK OFFICE**

In re Application of: Naota INABA et al.

Application No.: 10/680,174

Confirmation No.: 5803

Filed: October 8, 2003

Group Art Unit: 3662

Allowed: January 28, 2005

Examiner: B. Andrea

For: RANGING APPARTUS, RANGING  
METHOD AND OPTO-ELECTRONIC  
CONVERSION CIRCUIT

Commissioner for Patents  
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Respectfully submitted,

**MORGAN, LEWIS & BOCKIUS LLP**

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By: Robert J. Goodell  
Reg. No. 41,040

Dated: March 15, 2005

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In re application of:

Naoto INABA, *et al.*

Confirmation No.: 5803

Application No. 10/680,174

Group Art Unit: 3662

Filed: October 8, 2003

Examiner: B. Andrea

Allowed: August 12, 2004

For: RANGING APPARATUS, RANGING METHOD AND  
OPTO-ELECTRONIC CONVERSION CIRCUIT

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1. Information Disclosure Statement Under 37 C.F.R. § 1.97(b).
4. PTO Form 1449, European Patent Office International Search Report, and 5 cited references.

Date: January 25, 2005

Attorney Docket No.: 053848-5017

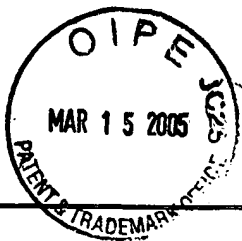
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**INFORMATION DISCLOSURE  
CITATION**

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PTO Form 1449

Attorney Docket No.

053848-5017

Application No.:

10/680,174

Applicants: Naoto INABA, *et al.*

Filing Date: October 8, 2003

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**U.S. PATENT DOCUMENTS**

*Examiner Initial	Document Number	Date	Name	Class	Sub Class	Filing Date
	6,222,660	04/24/2001	Traa			
	5,966,678	10/12/1999	Lam			
	5,319,972	06/14/1994	Oblak, et al.			
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	4,292,514	09/28/1981	Ohtomo			
	3,728,725	04/17/1973	Bauer			
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	3,386,091	05/23/1968	Muchlinski, et al.			
	3,364,482	01/16/1968	Sones			

**FOREIGN PATENT DOCUMENTS**

Document Number	Date	Country	Class	Sub Class	<u>Translation</u> YES NO	
GB 2 308 763	07/02/1997	United Kingdom				
WO 99/12052	03/11/1999	PCT				
WO 96/39611	12/12/1996	PCT				

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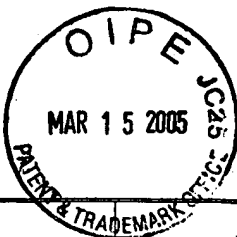
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## FOREIGN PATENT DOCUMENTS

Document Number	Date	Country	Class	Sub Class	Translation YES NO	

## OTHER DOCUMENTS (Including Author, Title, Date, Pertinent Pages, Etc.)

		"Digital Image Processing Techniques Applied to the Radar Detection Problem", C.R. Guarino, Proceedings of Southeastcon. Williamsburg, Proceedings of the Southeast Conference, New York, IEEE, US, vol. 1, pp 702-706, April 7-10, 1991.
		"A Novel High-Gain Image Sensor Cell Based on Si p-n APD in Charge Storage Mode Operation", Komobuchi, et al., IEEE Transactions on Electron Devices, USA, vol. 37, no. 8, pp 1861-1868, August 1990.

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